

Market Street Development

an analysis

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city & county of san francisco market street design task force 5/S



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EVALUATION OF DESIGN PROPOSALS FOR MARKET STREET SUBWAY STATIONS AND DEVELOPMENT OF THE STREET SURFACE

The Board of Supervisors has requested the Market Street Executive Committee and its Task Force to analyze and evaluate the preliminary designs for the Market Street stations submitted by BARTD and the conceptual plans prepared by the City's Urban Design Consultants for the development of the street surface, as presented to the Board of Supervisors on June 28, 1965.

The design proposals were extensively reviewed with both public and private groups after which Task Force committees carried out a detailed evaluation of the plans. This evaluation was considered by the Executive Committee in many sessions.

During the process of work, which culminated in these preliminary design proposals, a considerable amount of new data was developed which identifies the many functions of Market Street. Recognizing the multiple uses and future demands of the street, the Executive Committee finds the following elements to be technically feasible:

1) Placement of entranceways within an area which is not more

than 28'6" from the existing property line. This permits the

development of adequate entranceways to the subway stations

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- while maintaining a high degree of flexibility for future use and development of the remaining portions of the street surface.
- 2) Large and significant plazas on publicly owned land, or land to be publicly acquired, designed and constructed in conjunction with the subway stations. Large plazas will contribute to the good design and operation of the street; for example,
 - a) Fifth-Eddy-Powell Street location;
 - b) Civic Center Station in the vicinity of Fulton Street in conjunction with the Seventh Street extension; and
 - c) Sutter-Sansome-Market intersection to blend with the existing open space complex around the Zellerbach and Standard Oil buildings.
- 3) The proposed extensions of Fifth and Seventh Streets will relieve traffic congestion and improve circulation.
- 4) <u>Closing certain streets</u> to vehicular traffic to facilitate plaza development:
 - a) Ecker Street from Market Street south to the loading turn-out of the new Standard Oil building;
 - b) Powell Street from Market Street to Ellis Street (with provision for service and emergency access only);
 - c) Eddy Street from Market to Anna Lane;
 - d) Fulton Street from Market to Hyde (with provision for service and emergency access only).

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- The need varies along the length of the street, and the final design should recognize this fact.
- 6) Public transit buses operating on the street surface can best

 operate from the curb lane with bus stops coordinated to provide

 direct service to subway stations.

The foregoing comments pertain to the submissions by both BARTD and the Urban Design Consultants.

Additional comments regarding BARTD's submissions are as follows:

1) Station mezzanines have not been designed at their east ends so as to fully accommodate patronage concentrations and to minimize conflicts between pedestrian and vehicular movements, specifically as follows:

At the Montgomery Street Station --Extension to the east side of Sansome Street

At the Powell Street Station-----Extension to the east side of Stockton Street and Fourth Street, with a connection to the Yerba Buena Center

At the Civic Center Station-----Extension to the east side of Seventh Street

2) <u>Mezzanine designs</u> do not provide for convenient and centralized access to the Municipal Railway loading platforms.

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- 3) <u>Mezzanines</u> have not been designed to adequately facilitate future connections to private properties.
- 4) The clear span design of the station areas facilitates pedestrian movement and has a desirable visual effect. While the design has reduced areas of concealment contributing to policing problems to a considerable degree, it has not fully eliminated them.
- Montgomery Street, Powell Street, and Civic Center generally recognize patronage concentrations and minimize vehiclepedestrian conflicts. Since the east end of the mezzanine at these three stations has been shortened over that indicated on previous submissions, the entranceways proposed are not placed at the points where they would best accommodate heavy patronage concentrations.
- 6) Entranceways at some locations have not been designed so that the majority of passengers can enter the subway without having to pass through the restricted sidewalk area between entranceways and buildings.
- 7) Station exhaust vents, access panels, etc. on the street surface are not located away from pedestrian crosswalks or with due consideration to other surface uses.

The Consultants have recommended Scheme "B" as a concept for the design of the street surface. The Committee's additional comments regarding the submission by the Urban Design Consultants are as follows:

- BARTD's pattern of <u>station entranceways and mezzanines</u>, the above comments relating to these items of BARTD's submission would apply.
- 2) The <u>development of small plazas</u> on private property needs further evaluation in light of the over-all scale of Market Street and the economics of downtown land development.
- 3) Although 35' <u>sidewalks</u> will provide space for pedestrians and for amenities such as trees, benches, and kiosks, there may be some areas where vehicular needs may require a variation in the sidewalk width.
- 4) Street closings have been recommended which would seriously disrupt the present downtown circulation system. Some of the problems can undoubtedly be resolved, but not without a detailed traffic network analysis and the adoption of an over-all circulation plan for the downtown area.
- 5) Mid-block crosswalks intended to facilitiate significant pedestrian movements would, in some instances, impede the efficient movement of transit and other vehicles.

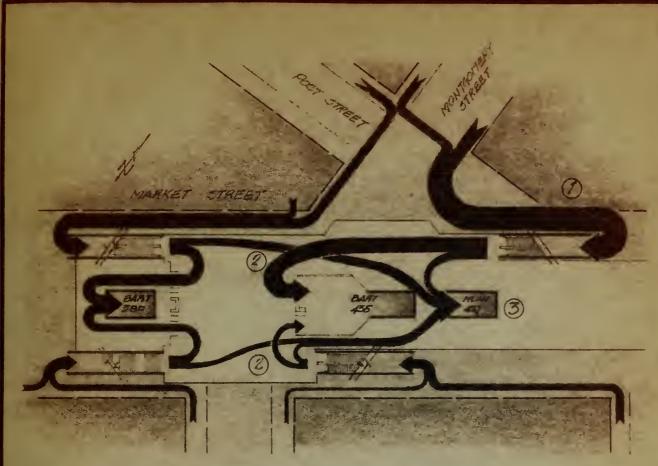
- 6) The <u>street narrowing</u> proposals for intersecting streets would not significantly improve pedestrian movement crossing the streets and would seriously restrict the vehicular flows.
- 7) Parking bays on Scheme "B" would impede the flow of vehicular traffic, especially transit buses.

On the basis of technical data developed to date, as illustrated on the attached charts, it appears that the four traffic lanes shown on Scheme "B" would be inadequate to accommodate existing and projected flow of transit vehicles, trucks, taxis and private automobiles. Scheme "B" provides for 35' sidewalks on each side of Market Street. More than four traffic lanes would result in sidewalk widths of less than 35'. Along the length of Market Street, changing pedestrian and vehicular volumes may require variations in the widths of sidewalks.

Although 35' sidewalks would provide generous space for pedestrians and amenities, the width of sidewalks cannot be finally determined until the question of vehicular use of the street has been resolved. Major traffic and transit studies now in progress will have an important bearing on the resolution of this question.

S. M. Tatarian
Chairman
Market Street Executive Committee

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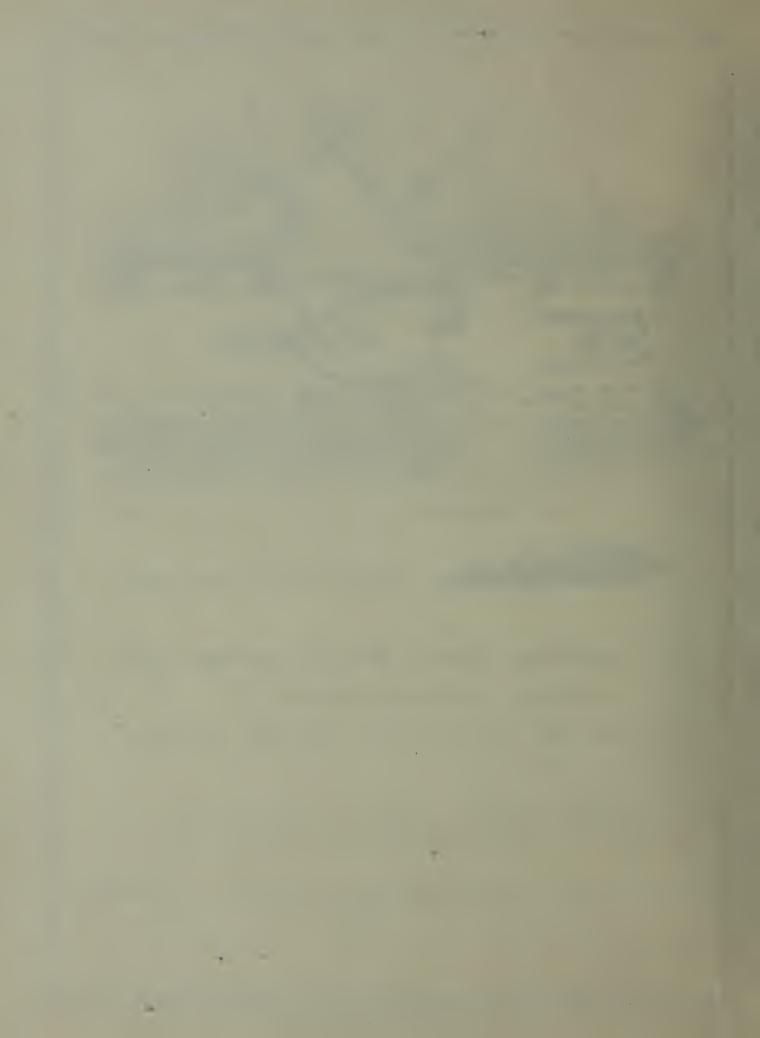


Pedestrians; 5 min peak

- 1. Pedestrians forced through narrowed walks
- 2. Conflicting patronage movements
- 3. Location of Municipal Railway access

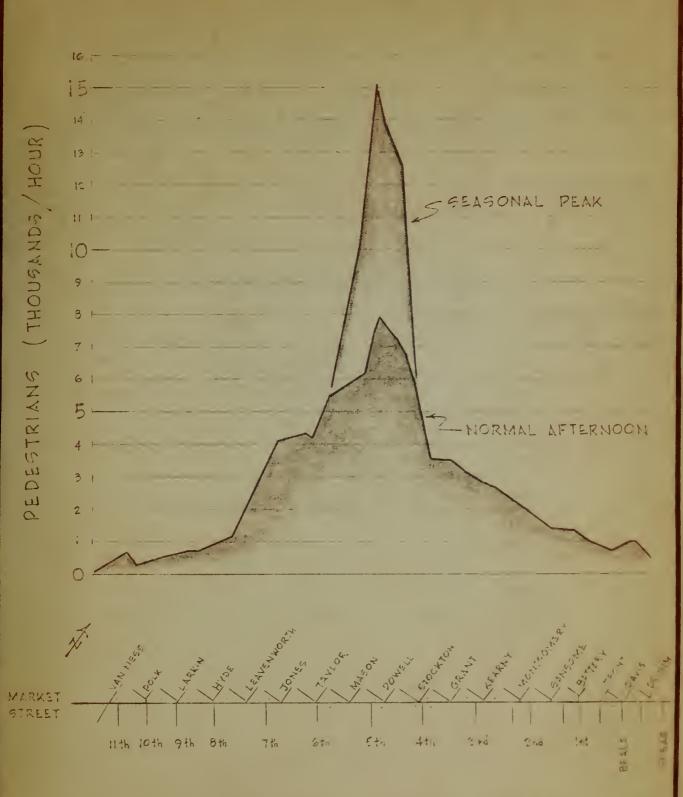
Patronage Flow Analysis
West end - Montgomery Street Station

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VEHICLE -PEDESTRIAN CONFLICTS 1975 P.M. PEAK HOUR STOCKTON ST. ELLIZ ST. 3780 NF 2,949 3,000 820 826 741 500 4,260-NP 2,248 3,000 3710 1,246 NF 2894 AT 816 LEGEND RAPID TRANSIT AND NORMAL PEDES-NP STREETCAR PATRONAGE TRIAN FLOW VEHICULAR FLOW --- P-DESTRIALIFON POWELL STATION MEZZANINE

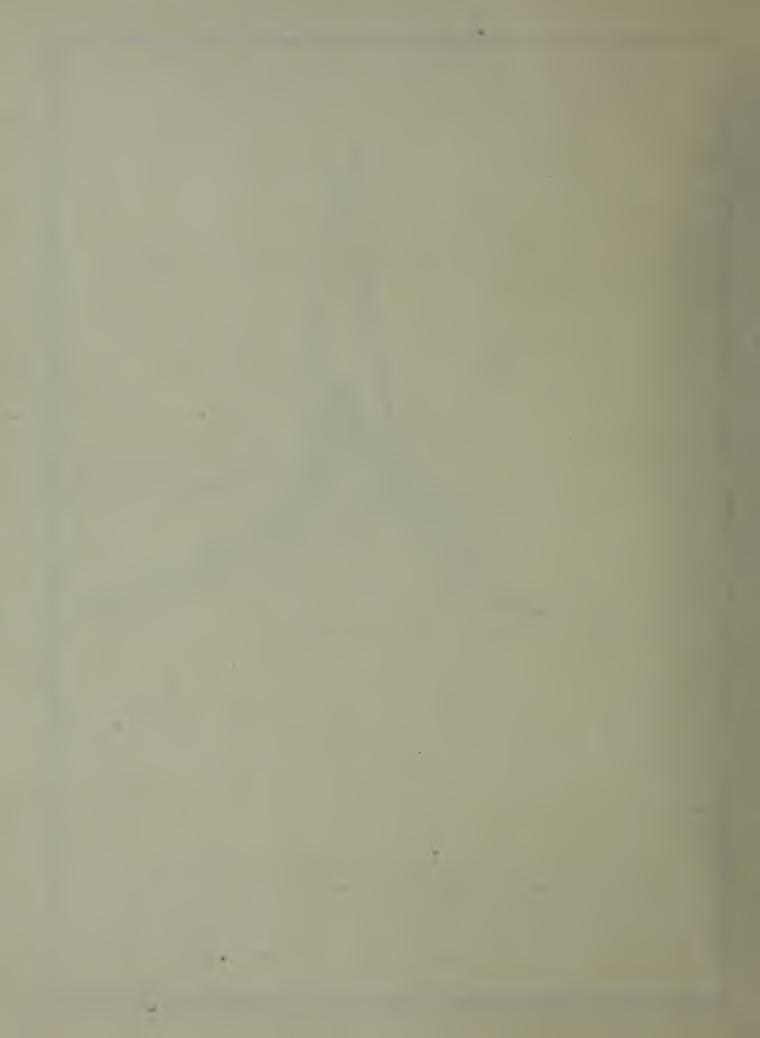


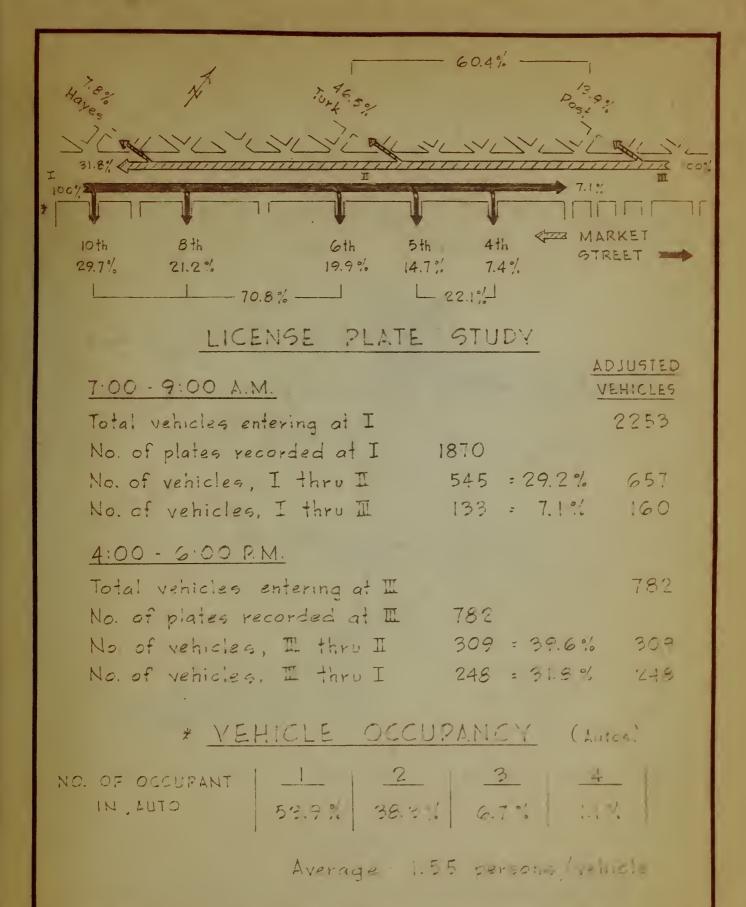


PEDESTRIAN VOLUMES

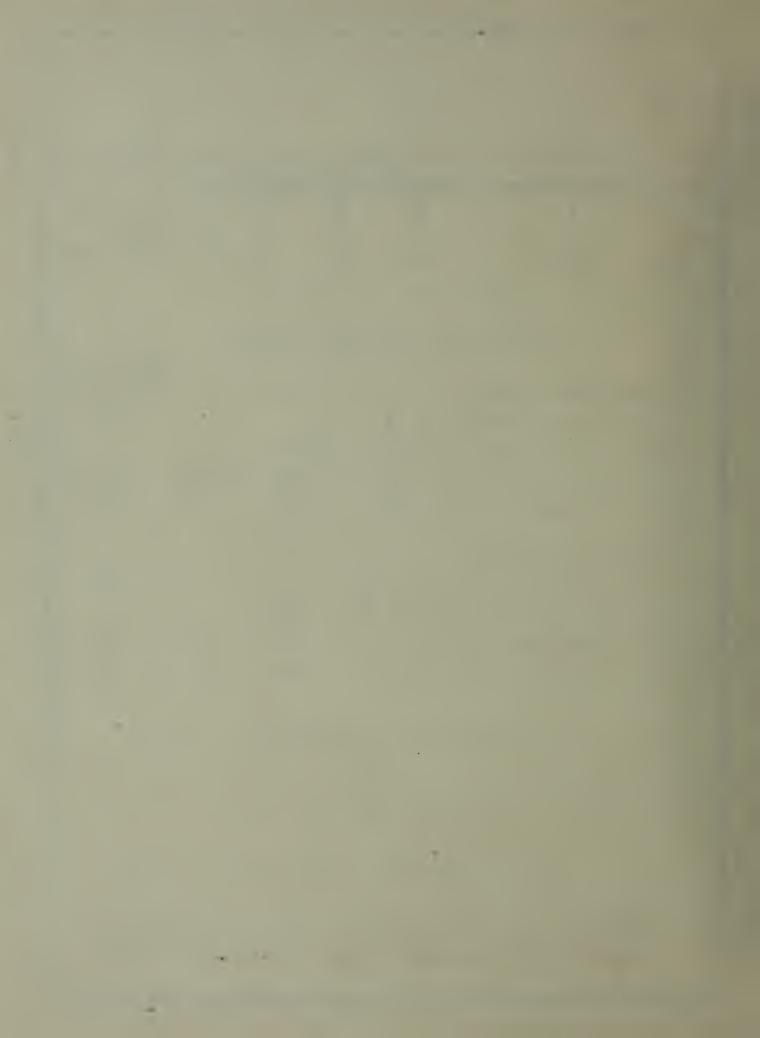
Market Street Sidewalks Total of North and South Sides

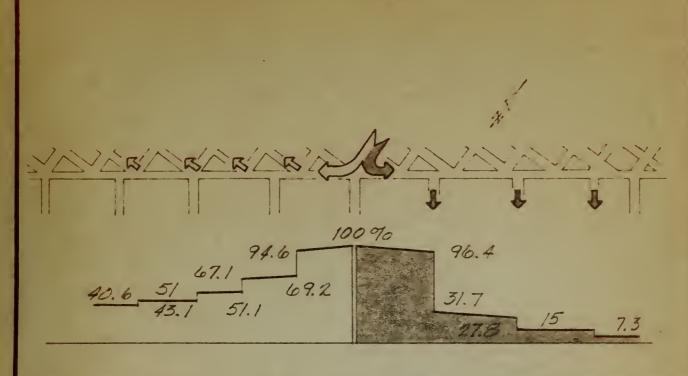
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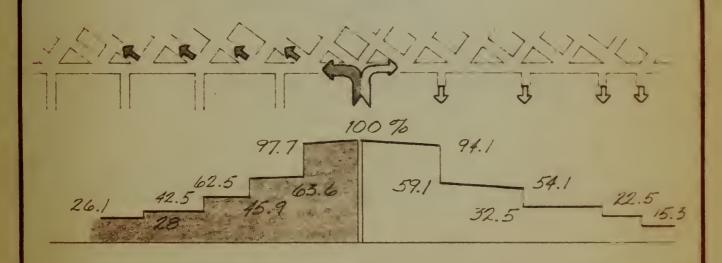


Through Traffic Distribution





TRAFFIC ENTERING FROM NORTH SIDE OF MARKET STREET



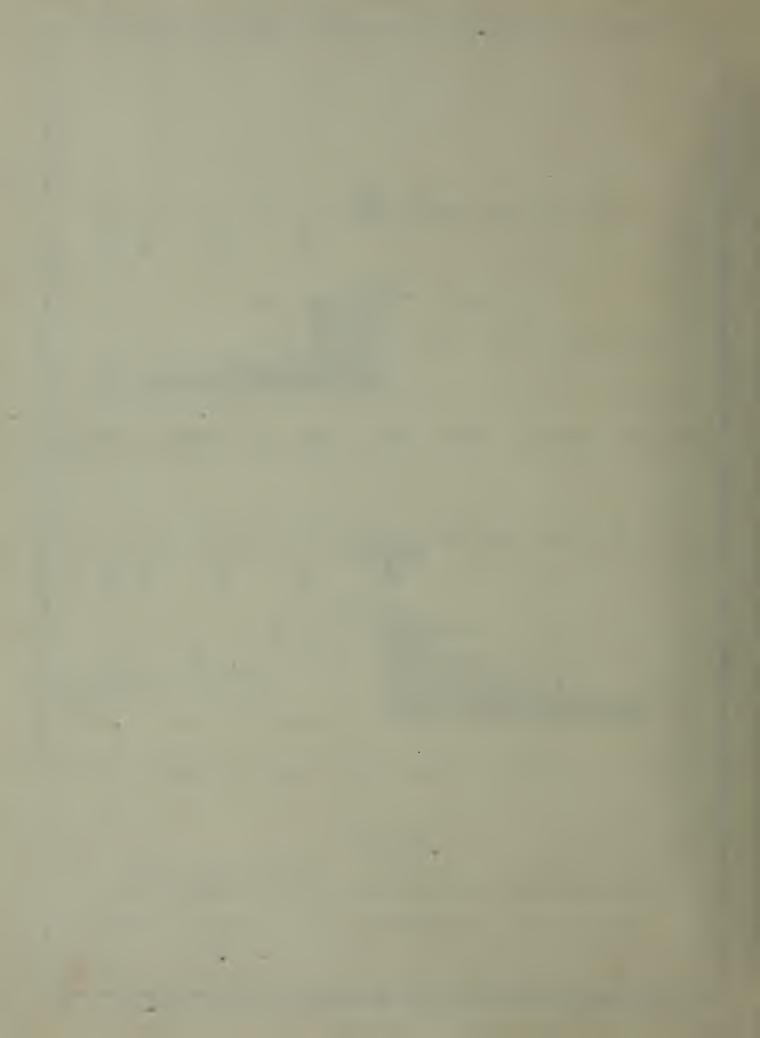
TRAFFIC ENTERING FROM SOUTH SIDE OF MARKET STREET

Typical

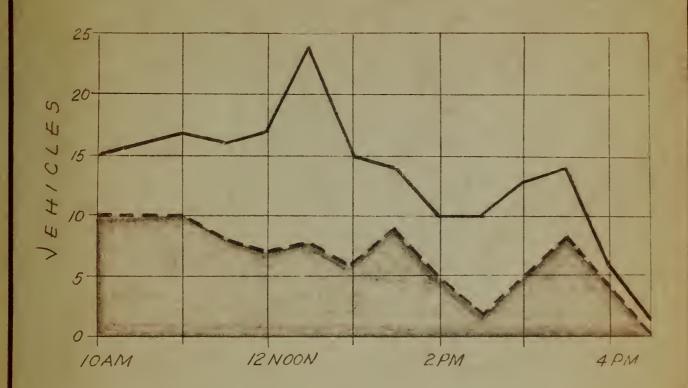
Circulating Traffic Distribution

To VEHICLES REMAINING ON MARKET STREET

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POWELL STREET STATION VICINITY (TYPICAL OF MARKET STREET STATION AREAS)



CURB PARKING ACCUMULATION

LEGEND

TOTAL VEHICLES

